



Available online at www.sciencedirect.com

SCIENCE @ DIRECT®

Marine Chemistry 83 (2003) 189–190

MARINE
CHEMISTRY

www.elsevier.com/locate/marchem

Contents Vol. 83 (2003)

<i>Announcement</i>	1
<i>Editorial</i>	3
Innovative methods for determining alkenone unsaturation indices	
C.G. Johnson, G.S. Fryssinger, R.K. Nelson, R.B. Gaines, N. Ohkouchi, C.M. Reddy and T.I. Eglinton	5
High-resolution nitrogen gas profiles in sediment porewaters using a new membrane probe for membrane-inlet mass spectrometry	
H.E. Hartnett and S.P. Seitzinger	23
Characterization and field trials of a bioluminescent bacterial reporter of iron bioavailability	
C.E. Mioni, A.M. Howard, J.M. DeBruyn, N.G. Bright, M.R. Twiss, B.M. Applegate and S.W. Wilhelm	31
Characterization of copper-complexing ligands in seawater using immobilized copper(II)-ion affinity chromatography and electrospray ionization mass spectrometry	
A.R.S. Ross, M.G. Ikonomou and K.J. Orians	47
Hydrolysis patterns and the production of peptide intermediates during protein degradation in marine systems	
B.L. Nunn, A. Norbeck and R.G. Keil	59
The effect of common nucleic acid stains on the composition of particulate organic matter as determined by direct temperature-resolved mass spectrometry and pyrolysis-gas chromatography-mass spectrometry	
E.C. Minor, C. Foust and R.F. Dias	75
Tracing the source and fate of biopolymers in seawater: application of an immunological technique	
M.V. Orellana, E.J. Lessard, E. Dycus, W.-C. Chin, M.S. Foy and P. Verdugo	89
<i>Preface</i>	101
Review article	
The biogeochemistry of the river and shelf ecosystem of the Arctic Ocean: a review	
T. Dittmar and G. Kattner	103
Biogeochemical processes in a freshwater-seawater mixing zone in permeable sediments along the coast of Southern Brazil	
H. Windom and F. Niencheski	121
Contrasting trace element geochemistry in two American and French salt marshes	
B. Velde, T. Church and A. Bauer	131
Iron speciation and biogeochemistry in different nearshore waters	
M. Öztürk and N. Bizsel	145
Mobilization of metals from riverine suspended matter in seawater	
V.M. Shulkin and N.N. Bogdanova	157

Aluminium in acidic river water causes mortality of farmed Atlantic Salmon (<i>Salmo salar</i> L.) in Norwegian fjords V. Bjerknes, I. Fyllingen, L. Holtet, H.C. Teien, B.O. Rosseland and F. Kroglund	169
Influence of diffuse sources on levels and distribution of polychlorinated biphenyls in the Guadiana River estuary, Portugal A.M. Ferreira, M. Martins and C. Vale	175
Author Index Vol. 83 (2003)	185
Keyword Index Vol. 83 (2003)	187
Contents Vol. 83 (2003).	189